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AMENDMENTS

In the claims:

Please enter the amendments and new claims as indicated below.

Claims 1-17 (Canceled)

Claim 18 (Currently amended) An isolated or recombinant polypeptide comprising a sequence having at least 94% amino acid sequence identity to the mature region of SEQ ID NO: 55, 61, 64, 65, 67, 68, 70 or 72.

Claim 19 (Canceled)

Claim 20 (Currently Amended) The <u>isolated or recombinant</u> polypeptide of claim 19

18, wherein said polypeptide comprises a sequence selected from SEQ ID NO: 55, 58-62, 75-78, 80
88, or 94-108, or the mature region thereof.

Claims 21-48 (Canceled)

Claim 49 (Currently Amended) The isolated or recombinant polypeptide of claim 47 20, wherein the polypeptide comprises an amino acid sequence of any one of corresponding to the mature region of SEQ ID NO: 55 to SEQ ID NO: 108.

Claim 50 (Currently Amended) The isolated or recombinant polypeptide of claim 47 18, wherein the encoded polypeptide exhibits lipase activity.

Claim 51 (Original) The isolated or recombinant polypeptide of claim 50, wherein the encoded polypeptide exhibits enantioselective lipase activity.

Claim 52 (Original) The isolated or recombinant polypeptide of claim 50, wherein the encoded polypeptide exhibits lipase activity with respect to tributyrin.

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- Claim 53 (Original) The isolated or recombinant polypeptide of claim 50, wherein the encoded polypeptide exhibits lipase activity with respect to tributyrin in DMF.
- Claim 54 (Original) The isolated or recombinant polypeptide of claim 50, wherein the encoded polypeptide exhibits lipase activity with respect to tributyrin after heat treatment.
- Claim 55 (Original) The isolated or recombinant polypeptide of claim 50, wherein the encoded polypeptide exhibits enantioselective lipase activity with respect to neryl-burryate.
- Claim 56 (Original) The isolated or recombinant polypeptide of claim 50, wherein the encoded polypeptide exhibits enantioselective lipase activity with respect to geranyl-butyrate.
- Claim 57 (Original) The isolated or recombinant polypeptide of claim 50, wherein the encoded polypeptide exhibits lipase activity with respect to methyl esters.
- Claim 58 (Original) The isolated or recombinant polypeptide of claim 50, wherein the encoded polypeptide exhibits lipase activity with respect to pentadecanolide.
- Claim 59 (Original) The isolated or recombinant polypeptide of claim 50, wherein the encoded polypeptide exhibits lipase activity with respect to oxacyclotridecan.

Claims 60-71 (Canceled)

- Claim 72 (Currently amended) The polypeptide of claim 1, 18, 35, 36, or 47, further comprising a leader sequence.
- Claim 73 (Currently amended) The polypeptide of claim 1, 18, 35, 36, or 47, further comprising a precursor polypeptide.

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- Claim 74 (Currently amended) The polypeptide of claim 1, 18, 35, 36, or 47, wherein the polypeptide comprises a secretion signal or a localization signal.
- Claim 75 (Currently amended) The polypeptide of claim 1, 18, 35, 36, or 47, wherein the polypeptide comprises an epitope tag.
- Claim 76 (Currently amended) The polypeptide of claim 1, 18, 35, 36, or 47, wherein the polypeptide comprises a fusion protein comprising one or more additional amino acid sequences.
- Claim 77 (Currently amended) The polypeptide of claim 1, 18, 35, 36, or 47, further comprising a polypeptide purification subsequence.
- Claim 78 (Currently amended) The polypeptide of claim 77, wherein the polypeptide purification subsequence is selected form from the group consisting of: an epitope tag, a FLAG tag, a polyhistidine sequence, and a GST fusion.
- Claim 79 (Currently amended) The polypeptide of claim 1, 18, 35, 36, or 47, further comprising a methionine residue at the N-terminus.
- Claim 80 (Currently amended) The polypeptide of claim 1, 18, 35, 36, or 47, wherein the polypeptide further comprises a modified amino acid.
- Claim 81 (Original) The polypeptide of claim 80, wherein the modified amino acid is selected from the group consisting of: a glycosylated amino acid, a PEGylated amino acid, a farnesylated amino acid, an acetylated amino acid, a biotinylated amino acid, and amino acid conjugated to a lipid moiety, and an amino acid conjugated to an organic derivatizing agent.

Claim 82 (Canceled)

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Claim 83 (Currently amended) A composition comprising one or more polypeptide of claim 1, 18, 35, 36, or 47, and a pharmaceutically acceptable excipient.

Claims 84-130 (Canceled)

Claim 131 (Currently Amended) A composition comprising a the polypeptide [encoded by a nucleic acid selected from the nucleic acids of claim 88, 89, or 112, and an excipient of claim 18 and a surfactant.

Claim 132 (Canceled)

Claim 133 (Canceled)

Claim 134 (Currently amended) The composition of claim 133 131, whorein the eleaning solution further comprises comprising one or more of: a builder, a surfactant, a polymer, a bleach system, a structurant, a pH adjuster, a humectant, or a neutral inorganic salt.

Claims 135-178 (Canceled)

Claims 179-180 (Canceled)

Claim 181 (New) The isolated or recombinant polypeptide of claim 18, wherein the polypeptide comprises one or more amino acid residues selected from the group consisting of Lys at position 1, Thr at position 14, Ser at position 17, Arg at position 22, Glu at position 26, Pro at position 31, Gly at position 33, Glu at position 34, Pro at position 35, Pro or Thr at position 37, Ser or Lys at position 41, Gly at position 42, Arg or Glu at position 43, Ala at position 61, Tyr at position 75, Gly at position 96, Ser at position 97, Thr at position 104, Ser at position 107, Ala at position 125, Gly at position 129, Val at position 134, Cys at position 138, Lys at position 141, Lys at position 146, Thr at position 156, Met at position 160, Arg at position 166, and His at position 177,

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wherein the positions are equivalent amino acid positions with respect to SEQ ID NO: 75.

Claim 182 (New) The isolated or recombinant polypeptide of claim 18, wherein the isolated or recombinant polypeptide comprises a sequence having at least 95% amino acid sequence identity to the mature region of SEQ ID NO: 55.

Claim 183 (New) The isolated or recombinant polypeptide of claim 182, wherein the isolated or recombinant polypeptide comprises a sequence having at least 96% amino acid sequence identity to the mature region of SEQ ID NO: 55.

Claim 184 (New) The isolated or recombinant polypeptide of claim 183, wherein the isolated or recombinant polypeptide comprises a sequence having at least 97% amino acid sequence identity to the mature region of SEQ ID NO: 55.

Claim 185 (New) The isolated or recombinant polypeptide of claim 183, wherein the isolated or recombinant polypeptide comprises a sequence having at least 98% amino acid sequence identity to the mature region of SEQ ID NO: 55.

Claim 186 (New) The isolated or recombinant polypeptide of claim 182, wherein the polypeptide comprises one or more amino acid residues selected from the group consisting of Lys at position 1, Thr at position 14, Ser at position 17, Arg at position 22, Glu at position 26, Pro at position 31, Gly at position 33, Glu at position 34, Pro at position 35, Pro or Thr at position 37, Ser or Lys at position 41, Gly at position 42, Arg or Glu at position 43, Ala at position 61, Tyr at position 75, Gly at position 96, Ser at position 97, Thr at position 104, Ser at position 107, Ala at position 125, Gly at position 129, Val at position 134, Cys at position 138, Lys at position 141, Lys at position 146, Thr at position 156, Met at position 160, Arg at position 166, and His at position 177,

wherein the positions are equivalent amino acid positions with respect to SEQ ID NO: 75.

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Claim 187 (New) The isolated or recombinant polypeptide of claim 183, wherein the polypeptide comprises one or more amino acid residues selected from the group consisting of Lys at position 1, Thr at position 14, Ser at position 17, Arg at position 22, Glu at position 26, Pro at position 31, Gly at position 33, Glu at position 34, Pro at position 35, Pro or Thr at position 37, Ser or Lys at position 41, Gly at position 42, Arg or Glu at position 43, Ala at position 61, Tyr at position 75, Gly at position 96, Ser at position 97, Thr at position 104, Ser at position 107, Ala at position 125, Gly at position 129, Val at position 134, Cys at position 138, Lys at position 141, Lys at position 146, Thr at position 156, Met at position 160, Arg at position 166, and His at position 177,

wherein the positions are equivalent amino acid positions with respect to SEQ ID NO: 75.

Claim 188 (New) The isolated or recombinant polypeptide of claim 182, wherein the isolated or recombinant polypeptide exhibits enantioselective lipase activity.

Claim 189 (New) An isolated or recombinant polypeptide exhibiting enantioselective lipase activity,

wherein the polypeptide comprises at least 45 contiguous amino acid residues of a polypeptide encoded by a polynucleotide that hybridizes under stringent conditions over substantially the entire length of a polynucleotide having a sequence corresponding to SEQ ID NO: 1, and

wherein the polypeptide comprises one or more amino acid residues selected from the group consisting of Lys at position 1, Thr at position 14, Ser at position 17, Arg at position 22, Glu at position 26, Pro at position 31, Gly at position 33, Glu at position 34, Pro at position 35, Pro or Thr at position 37, Ser or Lys at position 41, Gly at position 42, Arg or Glu at position 43, Ala at position 61, Tyr at position 75, Gly at position 96, Ser at position 97, Thr at position 104, Ser at position 107, Ala at position 125, Gly at position 129, Val at position 134, Cys at position 138, Lys at position 141, Lys at position 146, Thr at position 156, Met at position 160, Arg at position 166, and His at position 177,

wherein the positions are equivalent amino acid positions with respect to SEQ ID NO: 75.

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Claim 190 (New) An isolated or recombinant nucleic acid comprising a polynucleotide that encodes the polypeptide of claim 18..

Claim 191 (New) The isolated or recombinant nucleic acid of claim 190, wherein the polynucleotide has a nucleic acid sequence corresponding to SEQ ID NO: 1.

Claim 192 (New) The isolated or recombinant nucleic acid of claim 190, wherein the polypeptide exhibits enantioselective lipase activity.

Claim 193 (New) The isolated or recombinant nucleic acid of claim 190, wherein the polypeptide comprises one or more amino acid residues selected from the group consisting of Lys at position 1, Thr at position 14, Ser at position 17, Arg at position 22, Glu at position 26, Pro at position 31, Gly at position 33, Glu at position 34, Pro at position 35, Pro or Thr at position 37, Ser or Lys at position 41, Gly at position 42, Arg or Glu at position 43, Ala at position 61, Tyr at position 75, Gly at position 96, Ser at position 97, Thr at position 104, Ser at position 107, Ala at position 125, Gly at position 129, Val at position 134, Cys at position 138, Lys at position 141, Lys at position 146, Thr at position 156, Met at position 160, Arg at position 166, and His at position 177.

wherein the positions are equivalent amino acid positions with respect to SEQ ID NO: 75.

Claim 194 (New) An isolated or recombinant nucleic acid comprising a polynucleotide that hybridizes under stringent conditions over substantially the entire length of a polynucleotide having a sequence corresponding to SEQ ID NO: 1 or a complementary sequence thereof,

wherein the isolated or recombinant nucleic acid encodes a polypeptide that exhibits lipase activity,

wherein the polypeptide comprises one or more amino acid residues selected from the group consisting of Lys at position 1, Thr at position 14, Ser at position 17, Arg at position 22, Glu at position 26, Pro at position 31, Gly at position 33, Glu at position 34, Pro at position 35, Pro or Thr at position 37, Ser or Lys at position 41, Gly at position 42, Arg or

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Glu at position 43, Ala at position 61, Tyr at position 75, Gly at position 96, Ser at position 97, Thr at position 104, Ser at position 107, Ala at position 125, Gly at position 129, Val at position 134, Cys at position 138, Lys at position 141, Lys at position 146, Thr at position 156, Met at position 160, Arg at position 166, and His at position 177,

wherein the positions are equivalent amino acid positions with respect to SEQ ID NO: 75.

Claim 195 (New) The isolated or recombinant nucleic acid of claim 190, wherein the isolated or recombinant nucleic acid comprises a polynucleotide that encodes a polypeptide having at least 95% amino acid sequence identity to the mature region of SEQ ID NO: 55.

Claim 196 (New) The isolated or recombinant nucleic acid of claim 195, wherein the isolated or recombinant nucleic acid comprises a polynucleotide that encodes a polypeptide having at least 96% amino acid sequence identity to the mature region of SEQ ID NO: 55.

Claim 197 (New) The isolated or recombinant nucleic acid of claim 196, wherein the isolated or recombinant nucleic acid comprises a polynucleotide that encodes a polypeptide having at least 97% amino acid sequence identity to the mature region of SEQ ID NO: 55.

Claim 198 (New) The isolated or recombinant nucleic acid of claim 197, wherein the isolated or recombinant nucleic acid comprises a polynucleotide that encodes a polypeptide having at least 98% amino acid sequence identity to the mature region of SEQ ID NO: 55.

Claim 199 (New) An isolated or recombinant nucleic acid comprising a polynucleotide sequence encoding a polypeptide comprising lipase activity produced by mutating or recombining one or more recombinant nucleic acids of claim 190.

Claim 200 (New) A vector comprising the isolated or recombinant nucleic acid of claim 190.

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Claim 201 (New) The vector of claim 200, wherein the vector is selected from the group consisting of a plasmid, a cosmid, a phage, a virus, and a fragment of a virus.

Claim 202 (New) A cell transduced by the vector of claim 200.

Claim 203 (New) A method of producing a polypeptide, the method comprising:

(a) introducing a nucleic acid of claim 190 into a population of cells,

wherein the nucleic acid is operably linked to a regulatory sequence capable of directing expression of a polypeptide encoded by the nucleic acid in at least a subset of the population of cells or progeny thereof; and,

(b) expressing the polypeptide in at least the subset of the population of cells or progeny thereof.

Claim 204 (New) The method of claim 203, further comprising isolating the polypeptide from the cells.

Claim 205 (New) The method of claim 204, further comprising expressing the polypeptide by culturing the population or a subset of the population of cells in a nutrient medium under conditions in which the regulatory sequence directs expression of the polypeptide encoded by the nucleic acid.

Claim 206 (New) The method of claim 203, further comprising isolating or recovering the polypeptide from the cells or from the nutrient medium.

Claim 207 (New) The method of claim 205, wherein the culturing is performed in a bulk fermentation vessel.

Claim 208 (New) The method of claim 203, wherein the cells are bacterial cells.

Claim 209 (New) The method of claim 203, wherein the cells are eukaryotic cells.

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Claim 210 (New) The method of claim 209, wherein the eukaryotic cells are selected from the group consisting of fungal cells, yeast cells, plant cells, insect cells, and mammalian cells.